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TROITSKIY, V. S.

"Space results of the Moon Exploration by Radiophysical Methods"

Soviet Papers Presented at Plenary Meetings of Committee on Space Research (COSPAR) and Third International Space Sumposium, Washington, D. C. 23 Apr - 9 May 62

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5/141/62/005/002/011/025 E192/E382

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Logachev, V.A., Pozdeyev, C.D. and Troitskiy, V.S.

AUTHORS: TITLE:

Influence of the flicker effect on the oscillationamplitude fluctuations of a vacuum-tube oscillator

Izvestiya vysshikh uchebnykh zavedeniy,

PERIODICAL: Radiofizika, v. 5, no. 2, 1962, 307 - 310

The problem was investigated experimentally by using an oscillator based on a tube, type 6:-1: (6ZhlP), operating TEXT: as a tuned anode system at a frequency of 300 kc/s. amplitude of the oscillations could be varied continuously by changing the coupling coefficient between the funed circuit and the grid circuit of the tube. The oscillator was provided with an amplitude detector and a spectrum analyser for measuring the amplitude fluctuations between 1 and 100 c.p.s. The output voltage of the analyser was measured by a vacuum-tube voltmeter having a time constant of 5 sec. It was found that the dependence of the spectral density of the amplitude fluctuations on frequency is in the form wa(f) = Af

Card 1/2

Influence of the

S/141/62/005/002/011/025 E192/E382

the quantity A is dependent only on the amplitude of the oscillations and the parameters of the oscillator tube. The amplitude-fluctuation spectrum $w_{\rm a}$ is thus a function of the

same type as the flicker-noise spectrum \boldsymbol{w}_1 . The above results

agree with the theoretical findings of V.S. Troitskiy (Izv. vyssh. uch. zav. - Radiofizika, v.l, 1, 21, 1958 and v.2, 574, 1959). The theory and experiments are in good agreement at small values of the oscillation amplitude and, in particular, for tubes having high flicker noise. On the other hand, the theory does not agree with the experiment at large oscillation amplitudes, which may be due to the fact that the dynamic theory of V.S. Troitskiy is not valid for this case. There are 4 figures.

ASSOCIATION:

Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete (Scientific Research

Radiophysics Institute of Gor'kiy University)

SUBMITTED:

August 29, 1961

Card 2/2

TROITSKIY, V.S.

Effect of a subsurface heat flow on lunar radio emission. Izv. vys. ucheb. zav; radiofiz. 5 no.3:602-603 '62. (MIRA 15:7)

1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete. (Moon-Temperature and radiation)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720005-8"

TROITSKIY, V.S.; TSEYTLIN, N.M.

Use of an absolute radio astronomy method for calibrating small antenna systems at microwave frequencies. Izv. vys. ucheb. zav.; radiofiz. 5 no.4:623-628 '62. (MIRA 16:7)

1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete. (Radio astronomy) (Microwave measurements) (Antennas (Electronics))

SU SHI-VEN'; SYAO GUAN-TSZYA [Hsiao Kuang-chia]; U KHUAY-VEY; TUN-VU; U TSZIN'-TSI [Wu Chin-ch'i]; TROITSKIY, V.S.; RAKHLIN, V.L.; STREZHNEVA, K.M.; ZELINSKAYA, M.R.

Observation of the solar eclipse of February 15, 1961 on the 3.2 cm. wavelength. Izv. vys. ucheb. zav.; radiofiz. 5 no.4:807-810 '62. (MIRA 16:7)

1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete.

(Eclipses, Solar) (Radio astronomy)

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KAMENSKAYA, S. A.; SEMENOV, B. I.; TROITSKIY, V. S.; PLECHKOV, V. M.

Results of precision measurements of lunar radio emission at a wavelength of 1.6 cm. Izv. vys. ucheb. zav.; radiofiz. 5 no.5: 882-884 62.

1. Nauchno-issledovatel'skiy radiofizioheskiy institut pri Gor'kovskom universitete.

(Moon-Observations) (Radio astronomy)

TROITSKIY, V. S.

New method for determining the density of lunar surface rocks.

12v. vys. ucheb. zav.; radiofiz. 5 no.5:885-891 '62.

(MIRA 15:10)

1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete.

(Moon-Surface)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720005-8"

37070 \$/057/62/032/004/016/017 B116/B102

11.7430

AUTHOR:

Troitskiy, V. S.

TITLE:

Directivity of a molecular beam formed by the outflow of gas

from a channel

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 4, 1962, 488-502

TEXT: The well-known molecular-kinetic theory of the directivity of a molecular beam is further developed and substantiated by experiments. The present considerations apply to both the molecular flux at any ratio of path length λ to channel length L, to a viscous flow ($\lambda \ll 2r$), and to intermediary cases. A general procedure is developed for calculating the directivity and intensity of a molecular beam for the general case of gas outflow from a channel. This procedure is illustrated by a simple example (calculation of a molecular beam formed by a rectangular channel). Pliagrams obtained on the basis of this theory fit experimental results Diagrams obtained on the basis of this theory fit experimental results satisfactorily. Conclusions: (1) With $\lambda_0 \gg L$, the directivity diagram is determined by the channel shape only. λ_0 min arises if $\lambda_0 = 1$, i.e.,

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720005-8"

CIA-RDP86-00513R001756720005-8

s/057/62/032/004/016/017 B116/B102

Directivity of a molecular beam ...

 $^{\lambda}_{\text{o min}}$ = L/2. This is the condition for a marked widening of the channel. (2) If the diagram is determined by Leff, a marked widening of the channel will begin at $L = L_{eff}$. (3) For a pipe of length L_1 with $L_{\mbox{eff}} \ll L_{\mbox{\scriptsize 1}}$, the intensity of outflow from this pipe can be compared with the maximum outflow intensity from a pipe with L2 = Leff. The two intensities are virtually equal. (4) A general relation can be obtained between diagram width and gas pressure in containers for channels of any length at given a = const. a times b is the channel cross section. The diagram obtained agrees with K. G. Günther's experimental diagram (Zs. f. Angew. Phys., 2, no. 11, 550, 1957). (5) A comparison of the intensity of outflow from a single circular pipe (diameter D, length L) with that of outflow from a set of small pipes (diameter d, length 1) with equal cross section and equal diagram (i.e., D/L = d/1) shows that the maximum intensity of outflowest constant pressure in the container does not vary. Shortening the pipe length by the L/1 = = D/d-fold, however, allows the gas density n_0 to be increased by as

Card 2/4

CIA-RDP86-00513R001756720005-8" APPROVED FOR RELEASE: 03/14/2001

Directivity of a molecular beam ...

S/057/62/032/004/016/017 B116/B102

many times without changing the diagram. The rise in intensity is limited by collisions of molecules in the beam, but this was not considered here (V. S. Troitskiy, ZhETF, 8, 1961). (6) The production of a molecular beam, less than $\triangle\theta = \triangle\theta_0 < 0.6 \sim 35^\circ$ wide, with pipes is much more convenient than with stops. θ is the angle of inclination of the molecular beam to the pipe axis. θ are tan (a/L). The present theory explains the principal rules governing the formation of a molecular beam. The greatest difficulty encountered in calculating the directivity is the fact that the diagram is entirely determined by the conditions prevailing at the pipe end, where the gas is not in equilibrium. It is recommended that the theory be further improved, and that the condition at the pipe end be taken into account. There are 8 figures. The most important English-language reference reads as follows: J. A. Giordmaine a. T. C. Wang. J. of Appl. Phys., 31, no. 3,

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Directivity of a molecular beam ...

S/057/62/032/004/016/017 B116/B102

ASSOCIATION: Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom gosudarstvennom universitete im. N. I. Lobachevekogo (Scientific Research Institute of Radiophysics at the Gor'kiy State University imeni

N. I. Lobachevskiy)

SUBMITTED:

September 26, 1960 (initially) May 12, 1961 (after revision)

Card 4/4

The nature and the ...

33424 S/033/62/039/001/008/013 E032/E514

the two-layer model. The open circles and the squares were taken from the literature. Inspection of these curves shows that the experimental results cannot be regarded as confirming the two-layer model on which there is a thin non-thermally conducting top layer covering derse lunar material and transparent to radio waves. The author recommends that this model should be rejected. The dependence of lunar radio emission on wavelength is said to indicate unambiguously the quasi-uniform nature of the surface layer, at least to a depth of 1 m. In earlier papers (Ref. 4: Proc. of the fifth conference on problems of comogony and Ref. 10) the author et al. showed that the ratio of the depth of penetration of the electromagnetic wave to the depth of penetration of the thermal wave is equal to 2%, where % is the wavelength. This relation is now confirmed again in a wider wavelength range. It is estimated from this that the dielectric constant of the surface layer is of the order of lm5 and the corresponding density is 0.4-0.5 g/cm³. On the other hand $\gamma = (k \ c)^{1/2}$ is estimated to be of the order of 1000 (k - thermal conductivity, ? - density, c specific heat). The general conclusion is that the chemical Card 2/45

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The nature and the ...

33424 5/033/62/039/001/008/013 E032/E514

composition of the lunar surface material is similar to terrestrial rocks and that lunar rocks cannot contain any appreciable amounts of meteoritic iron. All evidence appears to suggest that the surface layer is in the form of a porous grainy material rather than dust. This would be consistent with the low density and low thermal conductivity. There are 3 figures and 20 references: 14 Soviet-bloc and 6 non-Soviet-bloc. The four latest English-language references read as follows: Ref.2: J.C.Jaeger, Austral.J. Phys., 6, 10, 1953; Ref.3: J. H. Piddington, H.C.Minnet, Austral. J. Scient. Res., 4A, 459, 1951; Ref.8: T. Cold, Observatory, 76, 71, 1956; Ref.14: J. E. Gibson, Proc. I.R.E., 46, 280, 1958.

ASSOCIATION:

Radiofizicheskiy in-t Gor'kovskogo gos. universiteta im. N. I. Lobachevskogo (Radiophysics Institute of the Gor'kiy State

University imeni N. I. Lobachevskiy)

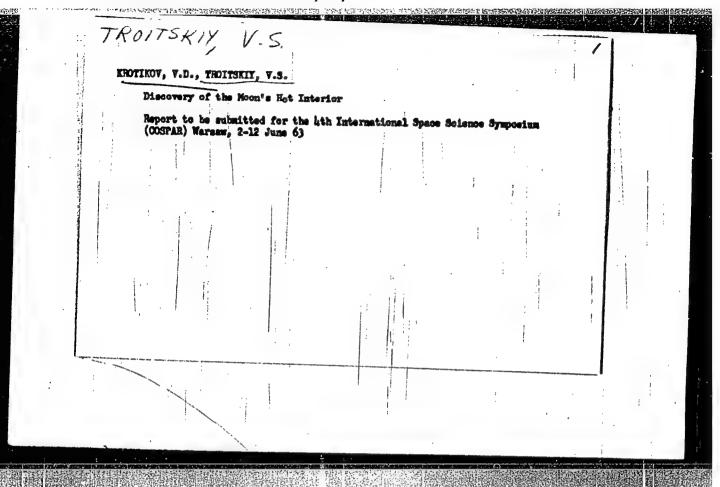
SUBMITTED:

February 17, 1961

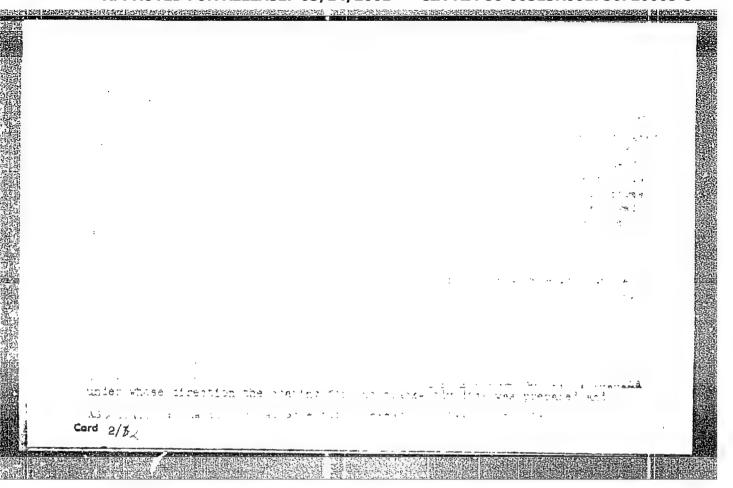
Card 3/4

Radiation properties of the moon at centimeter wavelengths.
Astron.zhur. 39 no.6:1089-1093 N-D '62. (MIRA 15:11)

1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universiteta.
(Moon)
(Radio astronomy)



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A MARINE OF THE STATE OF THE ST			the second and the second second
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radiation tempera ABSTRACT: Test r recorded in the s	A, Cyg-A, Tmi-A, rediat ture, antenna temperatu esults and receiving eq utumn of 1962 from disc band. An h-meter parab	re, black body uipment are describ rete sources in Cas polic antenna was us	ed for radio reception -A, Cyg-A, and Tsu-A
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ACCESSION NR: AP3004852

6/0141/63/006/003/0631/0633

AUTHOR: Troitskiy, V. S.

TITLE: On the nature of material in lunar sess and continents

75 74

SOURCE: IVUZ. Radiofizika, v. 6, no. 3, 1963, 631-633

TOPIC TAGS: moon, moon surface, lunar surface, lunar material, lunar emission, lunar radiation, radio emission, radio brightness, brightness temperature

ABSTRACT: The hypothesis that the lunar seas and continents are made up of appreciably different materials is questioned. According to one view, that the "seas" are of basaltic rock and the "continents" of granitic rock, it follows that a measurable difference should be detectable in characteristics of the radiation temperatures from these surfaces, such as variations in amplitude or phase shift in the time-varying components of the received emission. It is asserted that the detection of amplitude rather than phase variations is at present more trustworthy because of limitations to measurement accuracy and that the greatest sensitivity to such a differential should be found in the 1- to 3-cm wavelengths. However, existing radio brightness data in the 0.4-,

Card 1/2

ACCESSION NR: AP3004652

0.8-, and il-om wavelengths are cited which show variations in intensity of not more than 6 or 7% between sea and continent regions, and it is held possible that even this variation is due to measurement error. It is concluded that on the easis of radiation data to date no significant difference has been detected between these lunar regions; to get more accurate data on lunar surface properties, more refined methods are necessary for detecting phase behavior of radiated energy. Orig. art. has: 2 formulas.

ASSOCIATION: Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom Universitete (Radiophysical Scientific Research Institute, Gor'kiy University)

SUBMITTED: 22Feb63

DATE ACQ: 27Aug63

NCL: 00

SUB CODE: AS

NO REF SOV: 006

OTHER: 002

Card 2/2

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10PF TAUS: Moon, heat flux, Moon reditation
ARNOTE A TO Process on measurance its contained emission at 1.4.1 m. 3.3 m. shows the made of the Radiophysics Institute (Gor kiy to the Process of the Was found to grow with the wave to the perature grows with increasing Moon depth. The thermal flux density, 1.3 x 11.6 cal-cm ⁻² , sec ⁻² , calculated from the above data is about 5 times as high as the existing theoretical evaluations which is explained by the high radio-
 The offered explanation is that the ten perature grows with increasing Moon depth. The thermal flux density, 1.3 x 11 ⁻⁶ cal-cm ⁻⁸ , sec ⁻⁴ , calculated from the above data is about 5 times as
 the perature grows with increasing Moon depth. The thermal flux density, 1.3x 11 ⁻⁶ cal-cm ⁻⁸ , sec ⁻⁸ , calculated from the above data is about 5 times as high as the existing theoretical evaluations which is explained by the high radic-

S/057/63/033/004/020/021 B117/B238

AUTHORS:

Ivanov, B. S., and Troitskiy, V. S.

TITLE:

Problem of the shaping of the directional characteristic

of molecular beams

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 33, no. 4, 1963, 494-499.

TEXT: Directional characteristics were calculated on the basis of the theory of beam formation (ZhTF, 32, no. 4, 1962). Clausing's equation for the distribution density of the molecules at the walls of short tubes was extended by studying a tube connected to a gas container such that the free path λ_0 in the tube is considerably greater than the linear dimensions of the source $(\lambda_0) L$. The following expression was derived for the normalized density $\overline{\nu}(s) = \nu(s)/\nu_0$ of collisions between the molecules and the wall:

S/057/63/033/004/020/021 B117/B238

Problem of the shaping of the ...

where $t=z/2r_0$ and $t=L/2r_0=L/d$. Since a strictly analytical solution of this equation met with mathematical difficulties, it was carried out on an electronic computor for a series of parameters. The carried out on an electronic computor for a series of parameters. The solution was non-trivial, since the function $\overline{\iota}(s)$ proved to be linear solution was non-trivial, which in no way satisfies the equation analytically for all parameters t_0 , which in no way satisfies the equation analytically.

Furthermore, the directional characteristic of a round tube was calculated for the more real case $\lambda_0 \gg L$, the relation $\nu(x) = (n\overline{\nu}/4)$ being taken

into account. It was assumed here that the effect of the mutual collisions of the particles cannot be neglected, but is nevertheless to small to change the density distribution $\nu(x)$ very much in comparison to the limiting case λ_0 L. The calculations carried out on an

electronic computer afforded a satisfactory agreement with the experimental results. This shows that the calculations carried out reflect the conditions for the formation of a molecular beam. The equations derived can be used in conjunction with the linear relationship n(x) to calculate the irrestional characteristics in terms of electron parameters if object to say pressure. There are a figures.

Jard 2, 3

s/057/63/033/004/020/021 B117/B238

Problem of the shaping of the ...

ASSOCIATION: Gor'kovskiy gosudarstvennyy universitet im. N. I.

Lobachevskogo

(Gor'kiy State University imeni N. I. Lobachevskiy)

SUBMITTED:

January 22, 1962 (initially) May 15, 1962 (after revision)

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756720005-8"

5/033/63/040/001/002/016 E032/E314

Lazarevskiy, V.S., Stankevich, K.S. and Troitskiy, V.S. AUTHORS:

Absolute precision measurements of the flux density of the 3.2 cm radiation from the Crab and Orion nebulae TITLE:

Astronomicheskiy zhurnal, v. 40, no. 1, 1963, PERIODICAL: 12 - 16

The flux density due to the discrete source Tau A and the Orion nebula was determined absolutely, using the method TEXT: described by one of the authors et al (Izv. vyssh. uch.zav., Radiofizika, 4, no. 6, 1961), in which the received signal is compared with the thermal radio emission of a perfectly black disc placed in the Fraunhofer zone of the ancenna. A parabolic antenna, 4 m in diameter, was employed. The beamwidth at halfpower points was 37' and the real sensitivity of the radiometer at a time constant of 64 sec was 0.2 K. Measurements on the Tau A radiation were carried out at different parallactic angles. was assumed that the degree of polarization was 7% and that the position angle was 148° . Since the reception was carried out with horizontal polarization, the observations had to be reduced in Card 1/2

Absolute precision

S/033/63/040/001/002/016' E032/E314

accordance with these figures to obtain the total flux density 4 As a result of 40 determinations, an average figure of 5.6 x 10 W = 2 = 1 was obtained for Tau A with an estimated r.m.s. error of 5%. The result for the central part of the Orion nebula (6' diameter) was 4.5 x 10 Wm cps with an estimated r.m.s. error of 7%. The latter result was obtained using the brightness distribution reported by Yu.M. Pariyskiy (Astron.zh., 38, 798, 1961). If the distance of the Orion nebula is assumed to be 450 ps and the angular diameter is 20', then the average electron density turns out to be of the order of 3000. The electron density at the centre of the nebula is estimated as 8 000 cm⁻². It is noted that previous measurements of the flux density were less accurate (15-20%) as compared with the results now reported. There are 1 figure and 1 table.

ASSOCIATION:

Radiofizicheskiy in-t Gor'kovskogo gosudarstvennogo universiteta (Radiophysics Tratital Control of Control of

universiteta (Radiophysics Institute of Gor'kiy State University)

SUBMITTED:

December 7, 1961

Card 2/2

KROTIKOV, V. D.; TROITSKIY, V. S.

Thermal conductivity of lunar materials according to the data of precision measurements of lunar radio emission. Astron. zhur. 40 no.1:158-160 J-F '63. (MIRA 16:1)

1. Radiofizicheskiy institut Gor¹kovskogo gosudarstvennogo universiteta im. N. I. Lobachevskogo.

(Moon-Surface) (Radio astronomy)

KROTIKOV, V.D.; TROITSKIY, V.S.

Detection of a hot flow from the moon's interior. Astron.zhur. 40 no.6:1076-1082 N-D *63. (MIRA 16:12)

1. Radiofizicheskiy institut Gor'kovskogo gosudarstvennogo universiteta.

Radio-frequency radiation from and nature of the moon. Usp. fiz.

Radio-frequency radiation from and nature of the moon. Usp. fiz.
nauk 81 no.4,589-639 D 163.

(MIRA 17:1)

5/0141/64/007/002/0208/0214

ACCESSION NR: AP4039720

AUTHOR: Troitskiy, V. S.

TITLE: Contribution to the theory of radio emission from Venus and from Mars

SOURCE: IVUZ. Radiofizika, v. 7, no. 2, 1964, 208-214

TOPIC TAGS: Mars, Venus, radio astronomy, radar observation, planetary radio emission

ABSTRACT: Inasmuch as most earlier investigations of the radio emission from these planets are confined to the media above their surfaces rather than the surfaces themselves (which may or may not be solid), the author presents a phenomenological analysis of the phase dependence of the surface radio emission without using a specific model for the atmosphere of the planet, but assuming that the surface is subject to a specified temperature regime. The theory

Card 1/2

ACCESSION NR:

employed is practically the same as developed by the author for radio emission from the moon (Astron. zh. v. 31, 511, 1954), with al lowance for the relative motion of the observer and the planet. Comparison of the theoretical results with the experimental data on the phase dependence of the radio emission from Venus and with radar data on the reflection coefficient yields an estimate of 2--10 days for the period of revolution of Venus, assuming the rotation of the planet to be in a direction opposite to the motion of the sun. More accurate data could be obtained by measuring the phase variation of the radio emission from the planet over a wide range of wavelengths. Although the calculations were made for Venus, they are also applicable to Mars. Orig. art. has: 1 figure and 10 formulas.

ASSOCIATION:

SUBMITTED: 05Ju163

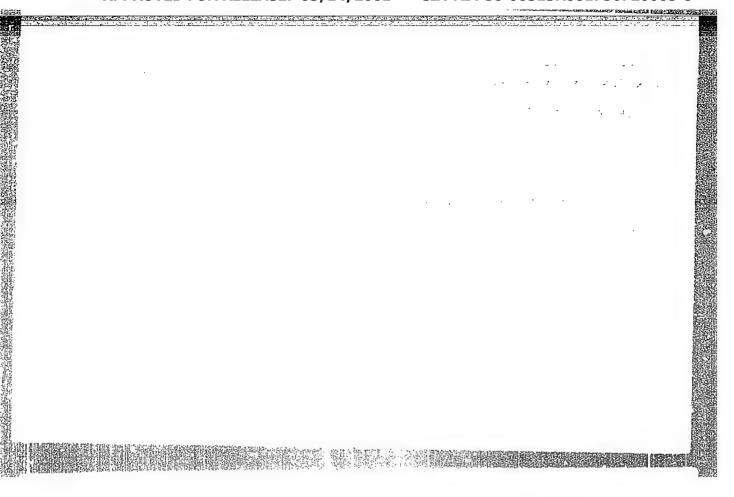
SUB CODE:

19Jun64 DATE ACQ:

NR REF SOV:

ENCL:

003 OTHER:



ACCESSION NR: APLO25904

\$/0030/64/000/002/0033/0038

AUTHOR: Troitskiy, V. S. (Doctor of physico-mathematical sciences)

TITLE: Radio waves and the nature of the moon

SOURCE: AN SSSR. Vestnik, no. 2, 1964, 33-38

TOPIC TAGS: moon, radiometric analysis, radio waves, lunar substance, thermal waves, radio emission layer, radioactive decomposition layer, lunar topography

ABSTRACT: The results of the first attempt to study the moon by radio are presented. In the SSSR the first reception of lunar radio waves was obtained in 1951 by S. E. Khaikin at the 3-cm wave. This thermal radiation was emitted by the moon's upper mantle, the temperature of which was determined by the solar radiation flux, duration of a lunar day, and, to a certain extent, by the thermal qualities of the lunar substance. According to its behavior, the radiation proceeded not only from the lunar surface but also from a depth below the temperature variations. An attempt was made to evaluate the thickness of this radioemission layer by the wave amplitude spectrum. The nature of the upper layer was studied mathematically in models representing different distributions of thermal properties in the mantle.

ACCESSION NR: AP4025904

According to the nature of wave amplitude variation, the properties of this layer were approximately homogeneous down to the depth of the penetration of the 3-cm wave. It was concluded on the basis of electromagnetic wave attenuation that the lunar substance was similar in composition to the silicate rocks with a known heat capacity. Data on density and heat conductivity of the lunar rocks indicated their 20-30 m thick overlying solid rock. The growth of radio temperature with wave length revealed a considerable flux of heat from the depth of the moon toward the heat generation per gram of the planet mass, this value was 4 to 6 times greater decomposition of radioactive elements accumulated mainly in a layer 60-70 km thick. served gas emissions (N. A. Kozyrev) and may be correlated with the volcanic theory

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 08Apr64

ENCL: 00

Card 2/32

CIA-RDP86-00513R001756720005-8

ACCESSION NR: AP4017620

\$/0033/64/041/001/0104/0109

AUTHOR: Troitskiy, V. S.

TITLE: Some results of an investigation of the Moon by radiophysical methods

SOURCE: Astronomicheskiy zhurnal, v. 41, no. 1, 1964, 104-109

TOPIC TAGS: Moon, radioastronomy, radiophysics, geological structure, temperature, artificial moon method, density, dielectric

ABSTRACT: The article is actually a short summary of Moon investigation work, carried out in the NIRFI and published, in part, in various scientific journals. Noting that the accumulated data provide a rather definite picture of the physical conditions on the Moon, the author comments that a complete exposition of this picture is as yet nowhere to be found. This fact has led the author to outline the general picture of established physical conditions on the Moon, on the basis of the most recent work carried out at the NIRF1 during the 1961-1962 period. The article itself consists of six sections: 1) Structure of the upper rock layer of the Moon. Homogeneous or two-layer model; 2) Precision measurements of the radio temperature of the Moon. Method. Results; 3) Mean-spherical radiation capacity of the Moon, dielectric constant and density of the matter of the upper cover; 4) Radio radiation determination of the thermal parameters of the upper layer; 5) Determination Card 1/2

ACCESSION NR: AP4017620

by thermal parameters of the structure and density of the upper cover; 6) Dielectric properties of the upper layer matter. Mineralogical composition. The quasihomogeneity of the properties of the upper one-meter layer of the Moon has been established from measurements of radio emission in a wide range of wavelengths (0.4-3.2 cm). Precise measurements of radio emission at 1.6, 3.2 and 10 cm, made by the "artificial moon method", permitted the determination of the dielectric constant of the layer $\mathcal{E} = 1.5 \pm 0.3$, its density $\mathcal{P} = 0.5 \pm 0.2$ g cm⁻³ and $\mathcal{Y} = (k/c)^{-1/2} = 350 \pm 75$. It is shown that \mathcal{Y} is a function only of \mathcal{P} and the structure; the value of \mathcal{Y} obtained points to porous structure at $\mathcal{P} = 0.4$ g cm⁻³ and to dry substances at $\mathcal{P} = 0.8$ g cm⁻³. A temperature increase with depth in the order of 1.5 degrees per meter and a thermal flow from the interior in the order of 1.10⁻⁶ cal cm⁻² sec⁻¹ are found. At centimeter wavelengths, the lunar material has a loss angle per unit density equal to $5 \cdot 10^{-3}$ radian. This corresponds to material of the type of gabbro, diorite, granite and others. The derived values of \mathcal{Y} and \mathcal{P} are evidence in favor of a solid porous state of the layer, while tending to reject the hypothesis of a dust layer. Orig. art. has: 9 formulas.

ASSOCIATION: Radiofizicheskiy Institut Gor'kovskogo gos. universiteta (Radio-Physics Institute, Gor'kiy State University)

SUBMITTED: 22Dec62 DATE AC

DATE ACQ: 18Mar64

ENCL: 00

Card 2/2

SUB CODE: AS

NO REF SOV: 017

OTHER: 003

ACCESSION NR: AP4040842

S/0033/64/041/003/0446/0451

AUTHOR: Troitskiy, V. S.; Tsey Lin, N. H.; Porfir'yev, V. A.

TITLE: Results of measurements of the intensity of radio emission of the source Taurus-A in the decimeter wavelength range

SOURCE: Astronomicheskiy zhurnal, v. 41, no. 3, 1964, 446-451

TOPIC TAGS: astronomy, radio astronomy, Taurus-A, radio emission, artificial satcllite

ABSTRACT: Measurements of the intensity of the radio emission from the discrete source Taurus-A were made in July-September 1962 at a number of wavelengths in the decimeter range: 25.1, 34.25, 35.9, 42.4 and 54.4 cm. The measurements were made with a parabolic antenna with an aperture diameter D = 8 meters. The antenna parameters are given in a table. The measurement method involved the comparison of the received radiation of the source and the standard (reference) radiation of an artificial moon, a metal disk 3.8 meters in diameter, covered by an absorbing material with a known temperature. The reference signal was the difference in the antenna temperatures caused by radiation of the disk and radiation of the region of the sky shielded by the disk. This difference is measured by the successive movement of the disk to and away from the main lobe of the diagram. The source was

ACCESSION NR: AP4040842

observed at altitudes ranging from 35 to 60°. The measured values of the intensity of the radio emission of Taurus-A are shown in Fig. 1 of the Enclosure. The new data are plotted as circles; data obtained by various other authors are shown for comparison. A straight line can be drawn through the experimental points, corresponding to a spectral index of the intensity of the radio emission of Taurus-A of α = -0.25. For further increase in accuracy it is proposed that the measurements be repeated in the considered range and that a detailed investigation be made of the intensity of radio emission in the range 10 cm $\leqslant \lambda \leqslant$ 25 cm and at wavelengths $\lambda >$ 60 cm. Orig. art. has: 6 formulas, 1 figure, and 3 tables.

ASSOCIATION: Radiofizicheskiy institut Gorikovskogo gosudarstvennogo universiteta imeni N. N. Lobachevskogo (Radio Physics Institute, Gorky State University)

SUBMITTED: 18May63

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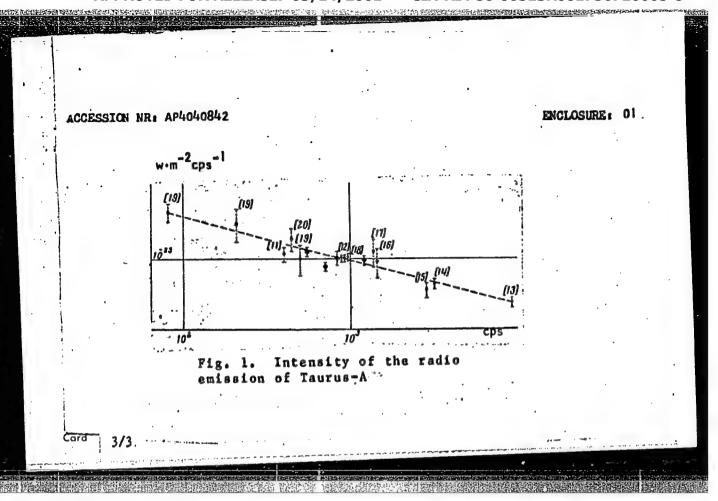
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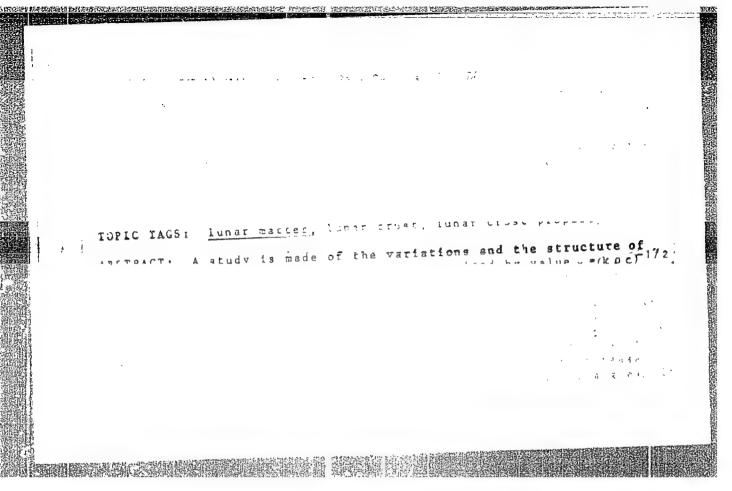
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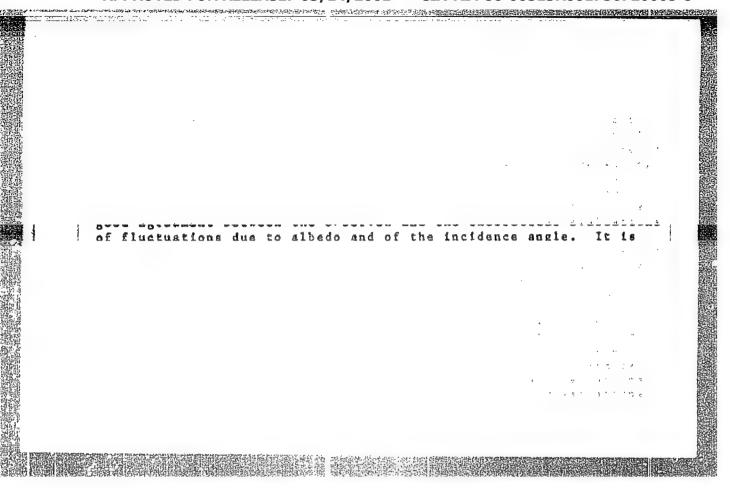
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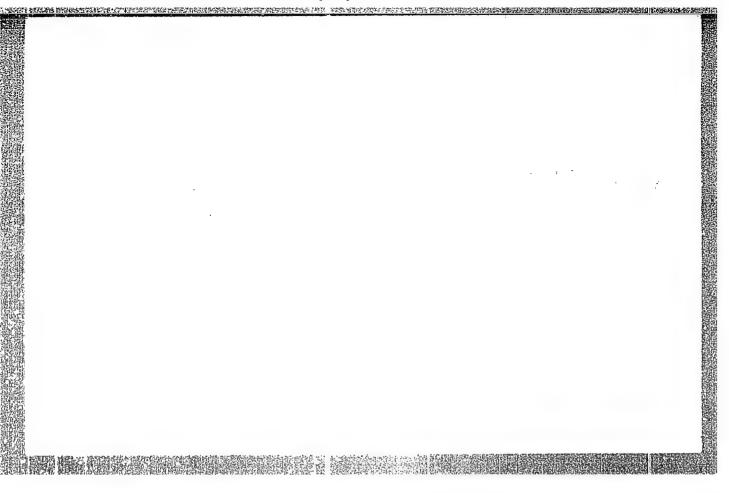
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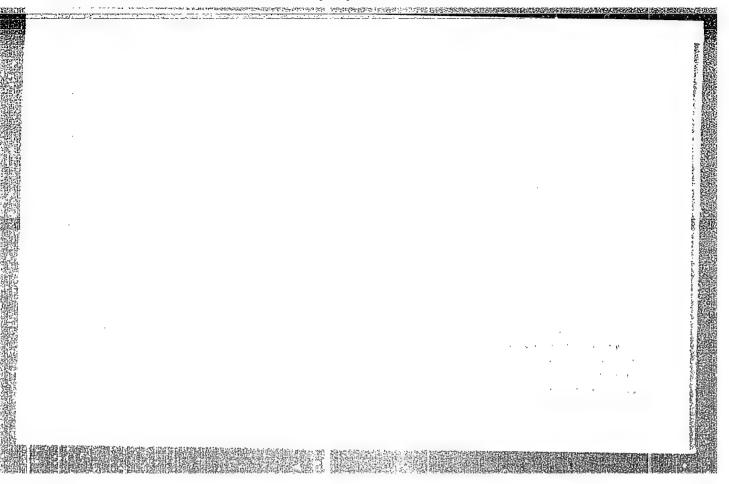
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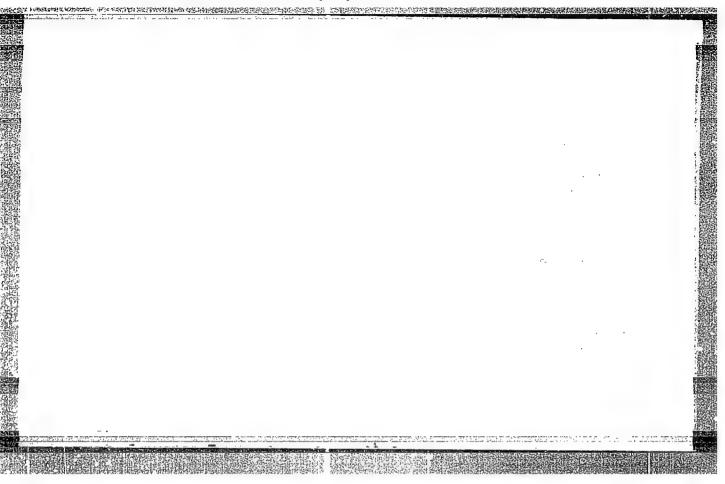


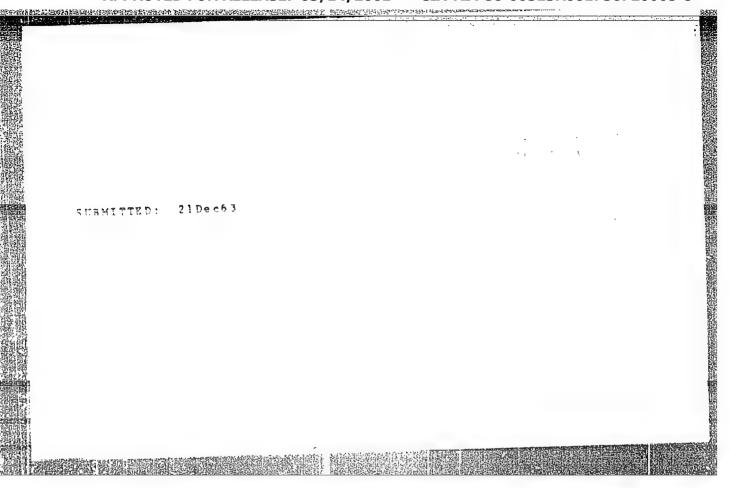


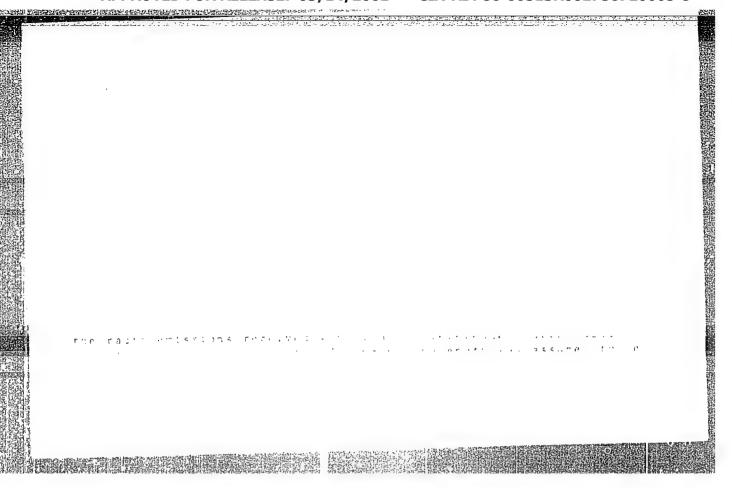


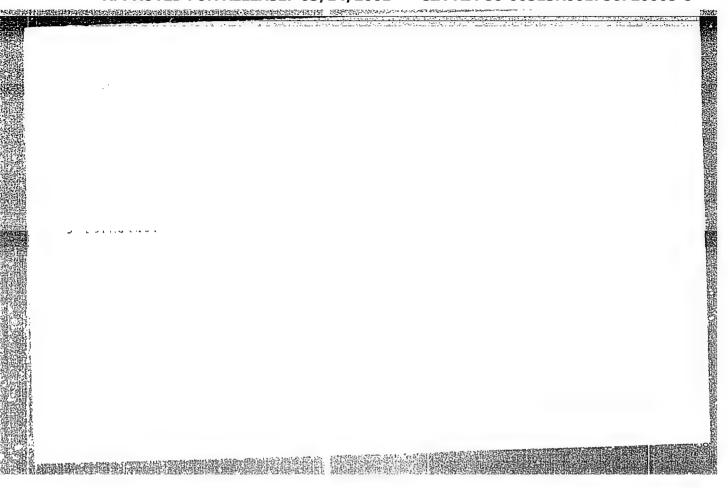






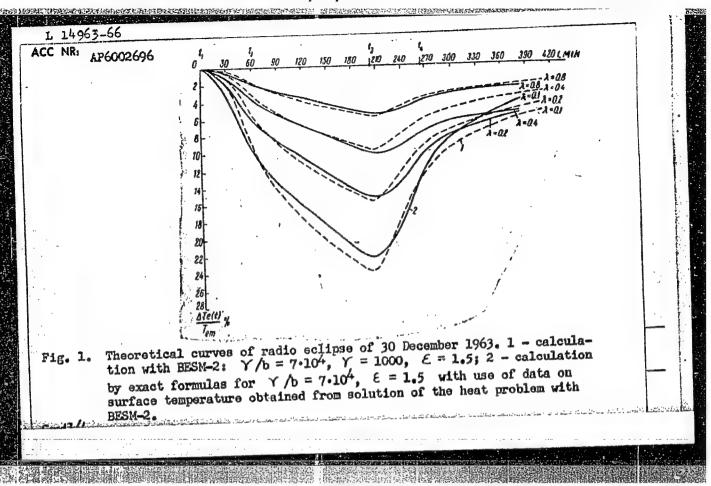


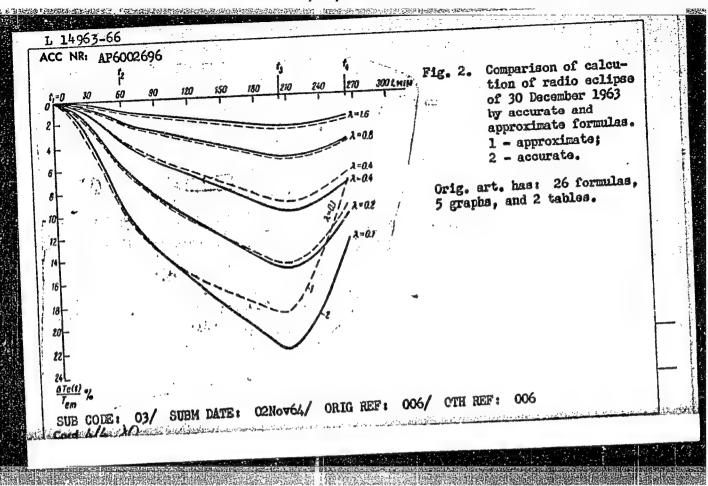




EWT(I)/FBD 1 14963-66 ACC NR: AP6002696 AUTHOR: Troitskiy, V. S. ORG: Radiophysics Institute, Gor'ky State University (Radiofizicheskiy institut Gor'kovekogo gos. universiteta) TITLE: Radio emission of the colipsed moon 12,55 Astronomicheskiy zhurnal, v. 42, no. 6, 1965, 1296-1309 SOURCE: TOPIC TAGS: eclipse, lunar eclipse, lunar radio emission, lunar temperature dielectric constant, specific heat, computer / BESM-2 computer ABSTRACT: The radio emission of the eclipsed moon is calculated theoretically under the assumption of uniform properties of the upper mantle to a depth where temperature fluctuations are possible during eclipses. Formulas are obtained for calculating the radio-emission intensity of the eclipsed moon (k=1,...4, n=k, k+1).Cad 1/4

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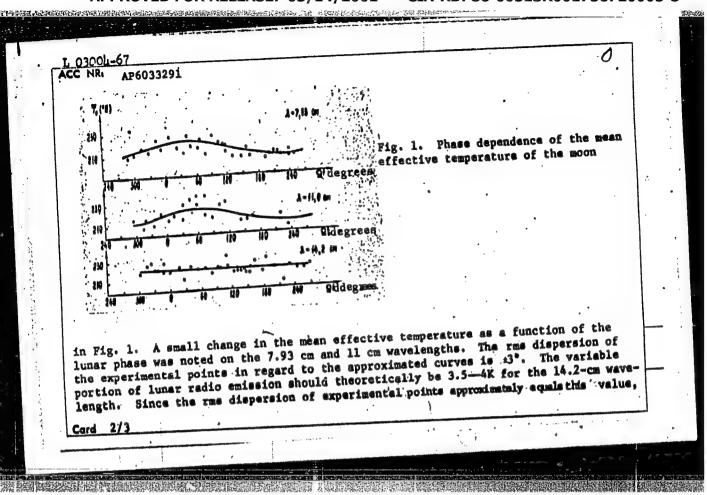




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GW/WS-2 UR/0141/66/009/005/1030/1032 EWT(1) I 03004-67 SOURCE CODE: ACC NRI AP6033291 AUTHOR: Alekseyev, V. A.; Krotikov, V. D.; Matveyev, Yu. G.; Mikhaylova, N. B.; Porfir vev. V. A.; Ryazanov, V. P.; Sergeyeva, A. I.; Strezhneva, K. M.; Troitskiy. V. S.; Shmulevich, S. A. ORG: Scientific Research Institute of Radiophysics, Gor'kiy University (Nauchnoissledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete) TITLE: Results of measurements of <u>lunar</u> radio emissions at wavelengths of 7.93, 11.0, 14.2, and 20.8 cm SOURCE: IVUZ. Radiofizika, v. 9, no. 5, 1966, 1030-1032 TOPIC TAGS: radio astronomy, parabolic antenna, radio emission , LUNAR ENVIRONMENT ABSTRACT: The mean effective temperature of the moon was measured in 1964-1965 at Zimenki Station on the 7.93,11.0, 14.2, and 20.8 cm wavelengths. The basic measuring equipment included a radio telescope antenna 4 m in diameter and two receivers operating on wavelengths of 7.5-15 cm and 15-30 cm. The fluctuation sensitivity threshold of the receiving equipment was from 0.4° to 0.7° at a time constant of 16 sec. The radio emission of the moon was compared with the reference emission of a disk (diameter, 380 cm) coated with absorbing material. The disk was placed in the Fraunhofer region, 230 m from the telescope aperture. The results of measurements of the phase dependence of the moon's effective temperature are shown 523,164.34 UDC: Card 1/3

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Radio emission from the eclipsed moon. Astron. zhur. 42 no.6:
Radio emission from the eclipsed moon. Astron. zhur. 42 no.6:
(MIRA 19:1)
1. Radiofizicheskiy institut Gor'kovskogo gosudarstvennogo
universiteta. Submitted November 2, 1964.

KAMENSKAYA, S.A.; KISLYAKOV, A.G.; KROTIKOV, V.D.; NAUMOV, A.I.; NIKONOV, V.N.; PROFIR'YEV, V.A.; PLECHKOV, V.M.; STREZHNEVA, K.M.; TROITSKIY, V.S.; FEDOSEYEV, L.I.; LUBYAKO, L.V.; SOROKINA, E.P. Microwave observation of lunar radio eclipes. Izv. vys. ucheb. zav.; radiofiz. 8 no.2;219-228 '65. (MIRA 18:6)

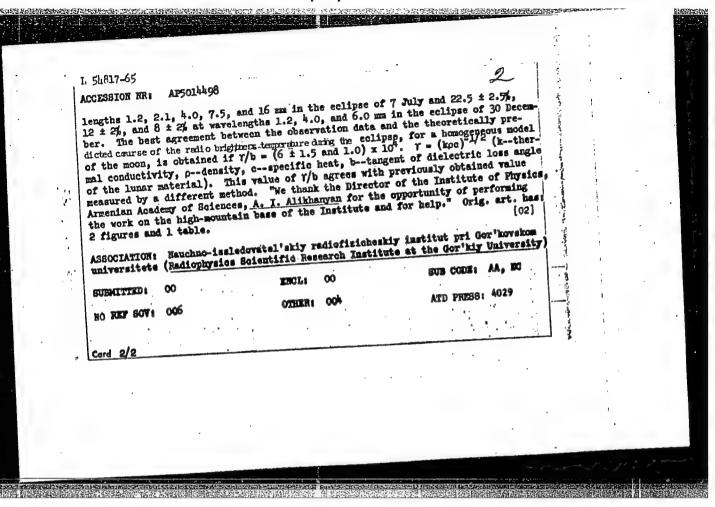
1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete.

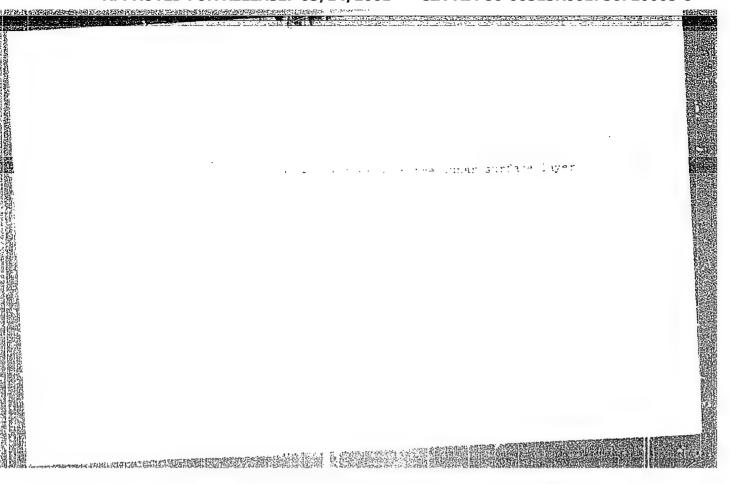
Some results of a sunly of the moon by radiophysical methods.

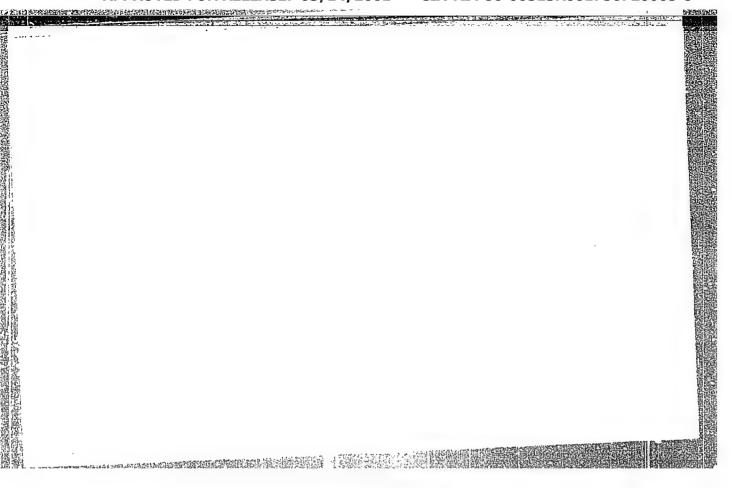
Isv. Kom. po fiz. plan. no.4:3.7 Ag '63. (MIRA 18:5)

l. Nauchne-issledovatel skiy radiofizioheskiy institut Gor kovskogo gosudarstvennogo universiteta.

ACCESSION NR: AUTHOR: Kamens) nov, V. M. Port Fecoseyev, L. I TITLE: Coserva SOURCE: IVUZ. TOPIC TAGS: re material ABSTRACT: The	AP501498 Aya, 8. A.; Kislyakov, A. G.; Krotikov, Arg., V. A.; Plechkov, V. M.; Strezhne Lubyako, L. V.; Sorokina, E. P. tion of the radio eclipse of the moon at Radiofizika, V. 8, no. 2, 1965, 219-228 dioastronomy, lunar eclipse, brightness radio emission from the moon was measure center 1963, by a procedure in which the	y. D.; Kausov, A. I.; Wiko- ys, K. H.; Troitskiy, Y. S.; millimeter wavelengths temperature, lunar surface ad during the eclipses of 7 antenna was :periodically of the difference fixed altitude and a mountain	
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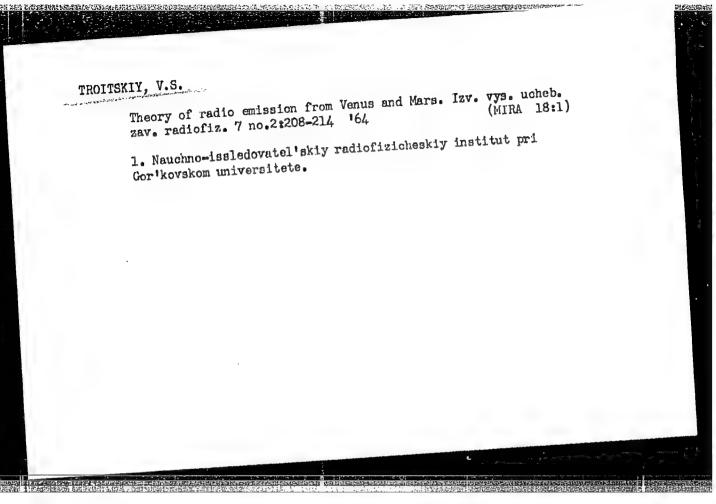


DMITRENKO, D.A.; KROTIKOV, V.D.; TROITSKIY, V.S.; TSEYTLIN, N.M.

Atmospheric absorption of radio emission at a wavelength of 70.16 cm.

Izv. vys. ucheb. zav.; radiofiz. 7 no.5:817-821 164.

1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kov-skom universitete.



ZAKHAROV, A.V.; KROTIKOV, V.D.; TROITSKIY, V.S.; TSEYTLIN, N.M.

Results of intensity measurements of the radio emission from discrete sources, the moon, and Jupiter at a wavelength of 70.16 cm. Izv. vys. ucheb. zav.; radiofiz. 7 no.3:553-555 (MIRA 17:11)

1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete.

TROITSKIY, V. S.

TROITSKIY, V. S.: "A comparative investigation of tender tires made of ordinary and high-carbon steel." Min Railways USSR. All-Union Sci Res Inst of Railroad Transport. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Science.)

Knizhnaya Letopis' No 32, 1956. Moscow.

Selection of steel qualities for wheel rims. Vest. TSHII MPS 16 no.4: 51-55 Je '57. (MIRA 10:8)

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ZEMISEV, V.N., inzh.; TROITSKIY, V.S., inzh.

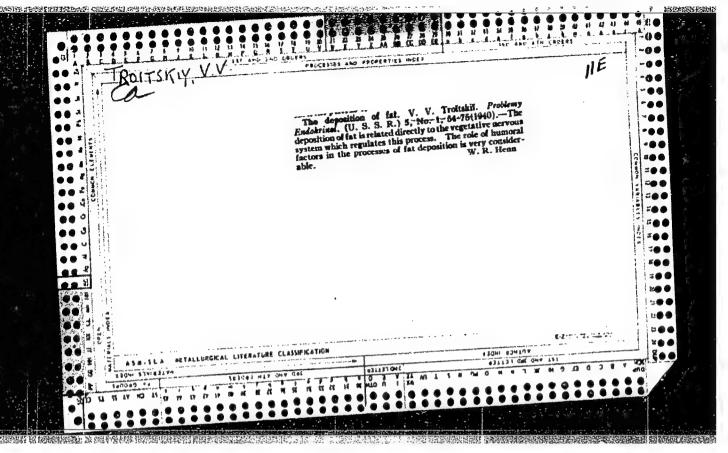
Rigid plumb bob for detecting the centers of hidden bench marks.

[Trudy] VNIMI no.45:325-328 162.

(Surveying instruments)

(Mine surveying)

(Mine surveying)



TROITSKIY, V.V., kand. tektn. mauk

Vibratory screw feeder for continuous batching of loose materials.

Stroi. i dor. mash. 9 no.2:32-33 F '54.

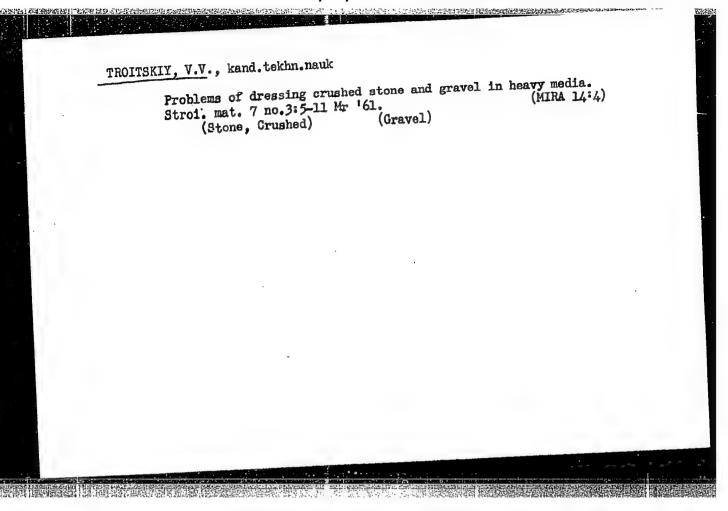
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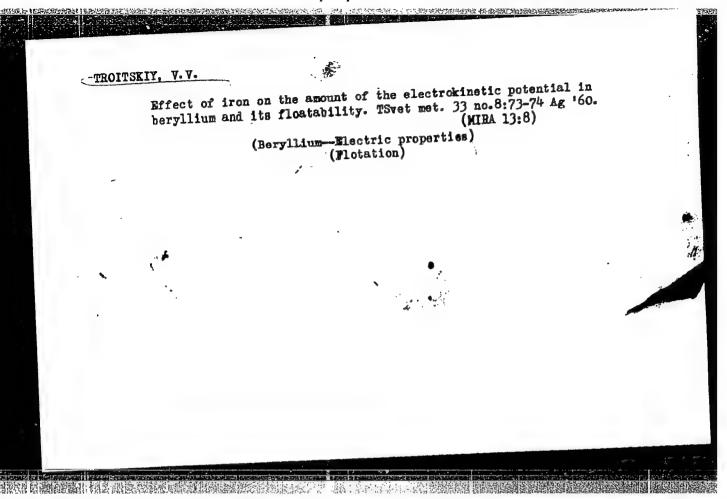
TROITSKIY, V.V., kand. tekhn. nauk; NESVETOV, V.V., inzh.

Investigating the operation of an electromagnetic hydrocyclone.

Gor. zhur. no.11:67-68 N '64. (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut stroitel'nogo
i dorozhnogo mashinostroyeniya, Moskva.





TROITSKIY, V. V.

TROTTSKIY, V. V.: "The problem of studying the flotability of sluige of certain nulfide orca." Moscow, 1955. Him Higher Education MASS. Moscow Inst of Nonferrous Metals and Gold imenia. M. I. Kalinin. (Dissertation for the Degree of Candidate of Technical Sciences)

SO: Knizhnava Letopis' No. 47, 19 November 1955. Moscow.

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TROITSKIY, V. V. - "Treatment of norve ends during severance to prevent the development of end neuromas," In symposium: VIII Sessiya Neyrokhirurg. soveta i Leningr. in-ta neyrokhirurgii, (Akad. nod. nauk SSSR), Moscow, 1948, p. 268-70

SO: U-3600, 10 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 6, 1949).

Ustroystvo ekspluatasiya. 1. remont. odnokovshovykh. ekskavatorov
(E 505, OM-20), ElOOh) (Uchebnik dlya tekhn shkol) M., transzheldoriz(at, 195h. 436 S. S. ill.; L. skhem. 23 sm. 6.000 eKz 8r 35 k.
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TROITSKIY Vladimin Variable yevich; IVANOVA, M.N., inzhener, redaktor;

TLIPTO, V.V., inzhener, redaktor; YUDZON, D.M., tekhnicheskiy

redaktor

[Design, operation and repair of single-shovel excavators (E-505,
OM-201, E-1004)] Ustroistvo, ekspluatatsiia i remont odnokovshovykh

ekskavatorov (E-505, OM-201, E-1004). Moskva, Gos. transp. zhelekskavatorov (1954, 436 p. [Microfilm]

(Excavating machinery)

SVIRIDOV, D.T.; SMIRNOV, Yu.F.; TROITSKIY, V.Ye.

Problem of d electron configurations in a crystal field. Configuration of d electron configurations in a crystal field. Configuration of d electron configurations in a crystal field. Configuration of d electron configurations in a crystal field. Configuration of d electron configurations in a crystal field. Configuration of d electron configurations in a crystal field. Configuration of d electron configurations in a crystal field. Configuration of d electron configurations in a crystal field. Configuration of d electron configurations in a crystal field. Configuration of d electron configurations in a crystal field. Configuration of d electron configurations in a crystal field. Configuration of d electron configurations in a crystal field. Configuration of d electron configurations in a crystal field. Configuration of d electron configurations in a crystal field. Configuration of d electron configuration of d ele

1. Institut kristallografii AN SSSR i Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

TROITSKIY, Ye.A., dotsent, kandidat tekhnicheskikh nauk

Investigation of the performance of reinforcement bars for prestressed reinforced concrete structures subjected to a pulsating
stressed reinforced concrete structures.

(MIRA 8:11)

(Reinforced concrete)

SOV/124-58 4-4714

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr4, p 148 (USSR)

AUTHOR: Troitskiy, Ye. A.

TITLE: Experimental Investigation of the Functioning of an Experimental

Bridge Girder and Operational Bridge-span Structures of Prestressed Concrete With Strong Reinforcement Bundles (Eksperimental'nyye issledovaniya raboty opytroy mostovoy balki i

ekspluatiruyemykh mostovykh proletnykh stroyeniv iz predvaritel no napryazhennogo zhelezobetona s moshchnymi armaturnymi

puchkami)

PERIODICAL: Tr. Vses. n. -i. in-ta transp. str-va, 1956, Nr 19, pp 299-332

ABSTRACT: A prestressed reinforced-concrete bridge girder with a span

of 23 meters was tested under static load until it failed. The experiments showed that the stresses are distributed over the cross section in the same way as if the beam were manufactured out of homogeneous elastic material the uniform consistency of which is not interrupted by cracks. Structural correction factors vary in the usual range of from 0.75 to 0.91. Dynamic experi-

ments with the girders showed that span structures made of

Card 1/2 prestressed concrete exhibit increased rigidity and react with

SOV/124-58 4 4714

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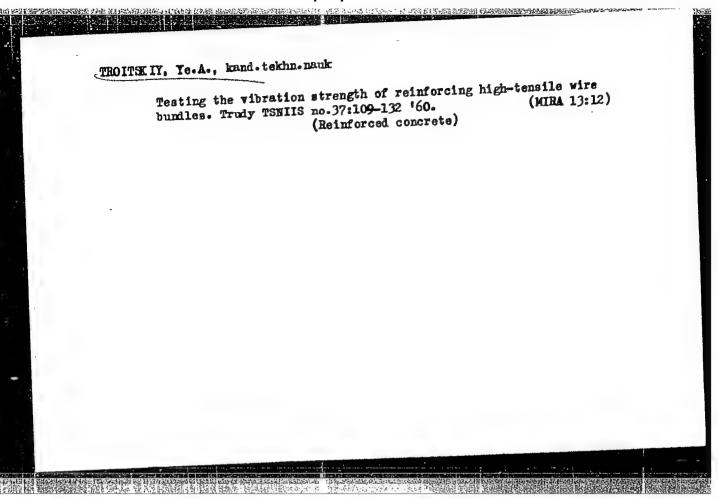
Experimental Investigation of the Functioning (cont.)

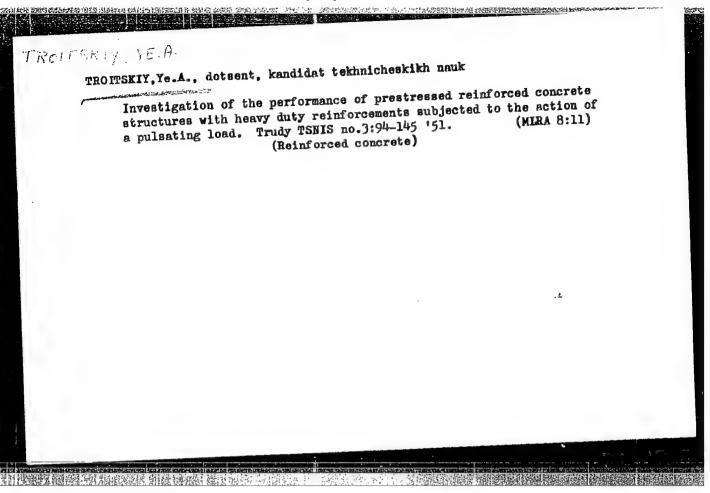
practically no residual deformations; sibrations induced therein subside quickly. However, the author does not recommend lowering the dynamic coefficient as standardized for girders of ordinary reinforced concrete, since the favorable results of the dynamic tests are matched by a decrease of the mass of the prestressed concrete girders which affords an increase in the dynamic coefficient. Long-term observations of the reaction of pressuressed concrete-span structures have led the author to the deduction that with a considerable initial compression of the concrete of from 0.55 to 0.85 of its ultimate compression strength the progression of plastic deformation under flexure continues for a long period. Although these deformations continue for over three years, they are not of substantial magnitude.

K. S. Zavrlyev

1. Bridges--Design 2. Girders--Test results 3. Reinforced concrete--Load distribution 4. Structures--Analysis 5. Mathematics

Card 2/2





TROITSKIY, Ye.A., kandidat tekhnicheskikh nauk, laureat Stalinskoy premii
Industrial production of precast reinforced concrete bridge spans.
Transp.stroi. 5 no.6:5-7 Ag'55.
(Bridges, Concrete)

(Bridges, Concrete)

NATIONAL PRODUCTION OF THE PROPERTY OF THE PRO

TROITSKIY, Yevgeniy Aleksandrovich; BOGDAHOV, Nikolay Hikolayevich; IOSILEVSKIY, Lev Izrailevich; SORCKIH, H.H., redaktor; YEVGRAFOV, G.K., professor, redaktor; KHITROV, P.A., tekhnicheskiy redaktor

[Railroad bridge span structures of prestressed concrete] Proletnye stroeniia zheleznodorozhnykh mostov iz predvaritel'no napriazhennogo zhelezobetona. Moskva, Gos.transp. zhel-dor. izd-vo, 1955. 330 p.

(Bridges. Concrete)

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TROITSKIY, Yevgeniy Aleksandrovich (jz. U.)
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Proletnyye Stroyeniya Zheleznodorozhnykh Mostov Iz Predvaritel'no Napryazhennogo Zhelezobetona (Arch construction of railroad bridges from prestressed reinforced concrete, by) Ye. A. Troitskiy, N. N. Bogdanov (1) L. I. Iosilevskiy. Moskva, Transzheldorizdat, 1955.

330 p. Diagrs., Tablets.

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TROITSKIY, Ye.A., kandidat tekhnicheskikh nauk.

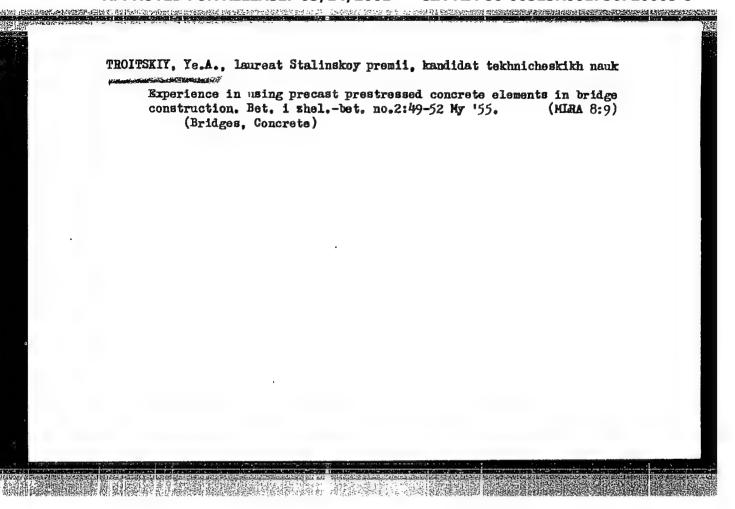
Experimental investigation of stress in an experimental bridge girder and bridge spans in use made of prestressed reinforced concrete with heavy reinforcement bundles. Trudy TSNIIS ho.19: 299-332 56. (MLHA 9:11) (Bridges, Concrete) (Girders) (Prestressed concrete)

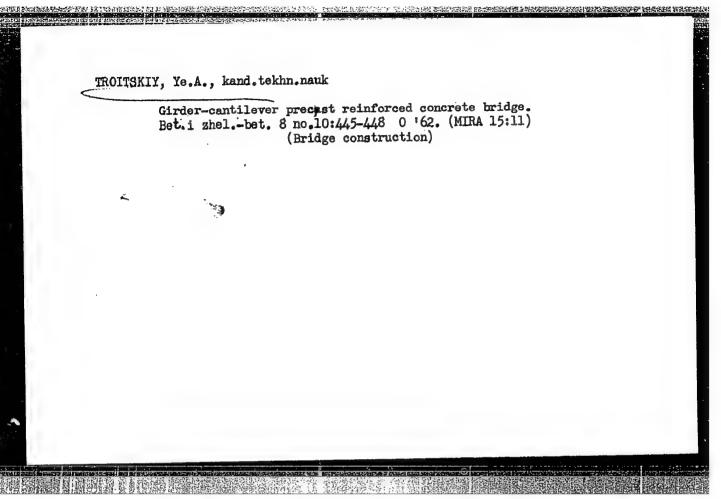
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GRIGOR'IEV, D.A., kandidat tekhnicheskikh nauk; TROITSKIV, Te.A., kandidat tekhnicheskikh nauk, laureat Stalinskey presil.

Precast thin wall prestressed bridge span structures with stressed clamps. Bst.i shel.-bst. nc.3:106-109 Js '55. (MIRA 9:1) (Bridge construction) (Cencrete, Prestressed)



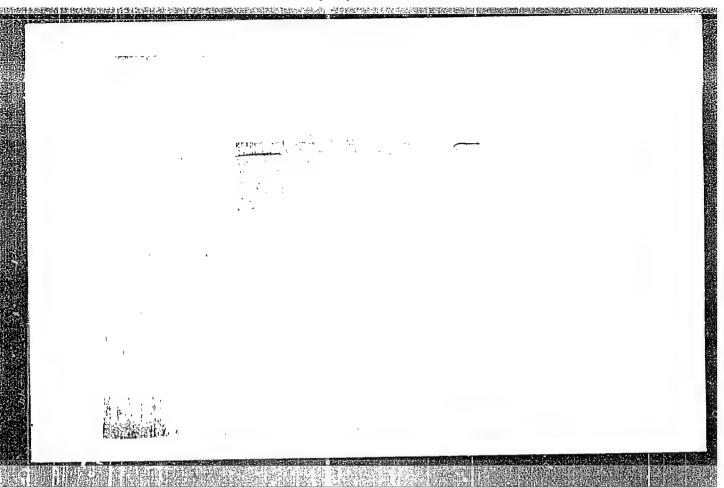


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Fundamental aspects of the study of trace elements in the soil plant system. Vest. Mosk. un. Ser. 6: Biol., pochv. 15 no. 5:4856 S-0 '60. (MIRA 13:12)

1. Kafedra pochvovedeniya Moskovskogo universiteta.
(Trace elements) (Biochemistry)

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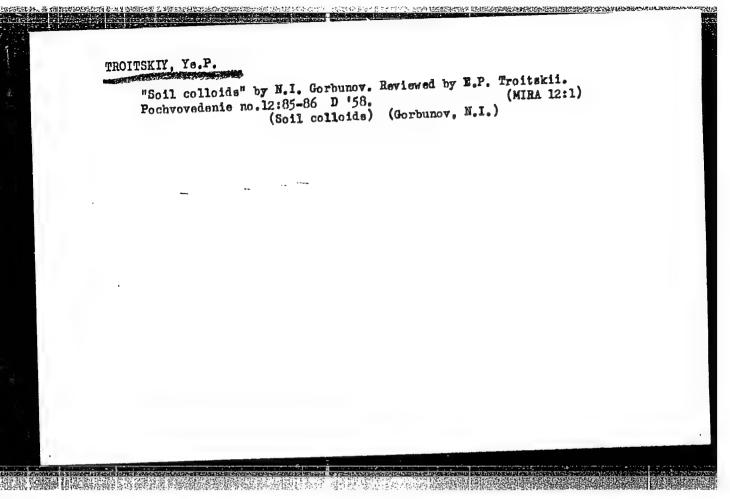
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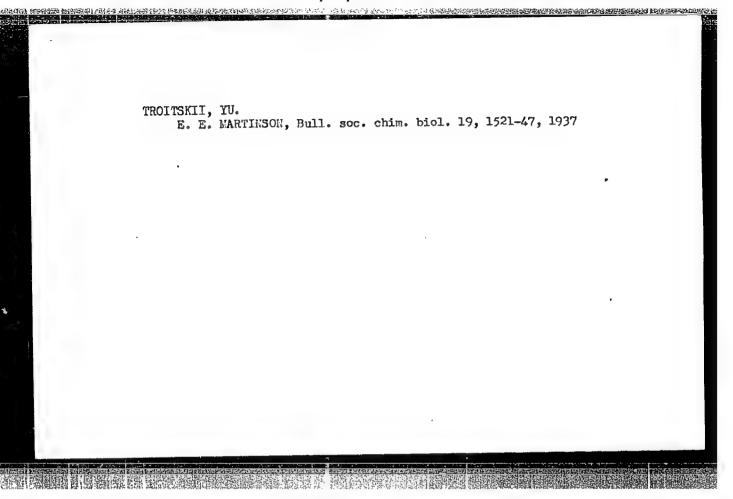
TROITSKIY, Ye., professor.

Popular science book on soil chemistry ("Soil chemistry." I.P.Serdobol'skii. Reviewed by E.P.Troitskii). Priroda 43 no.10:120-121 0 '54. (MIRA 7:10)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova (for Troitskiy)

(Soil chemistry) (Serdobol'skii, I.P.)

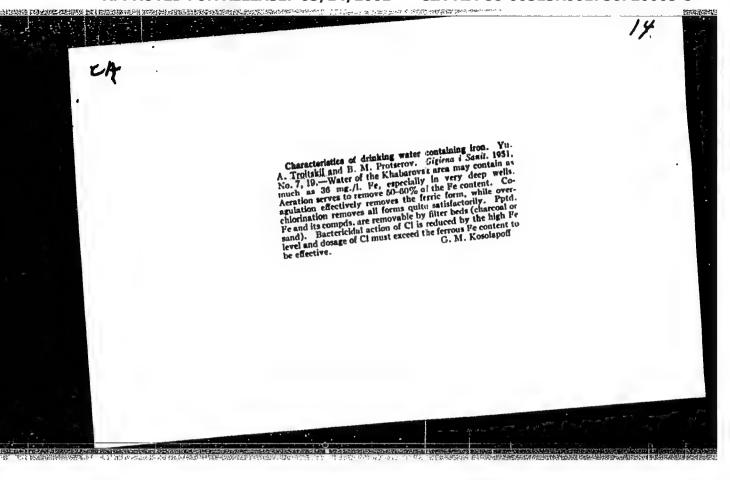


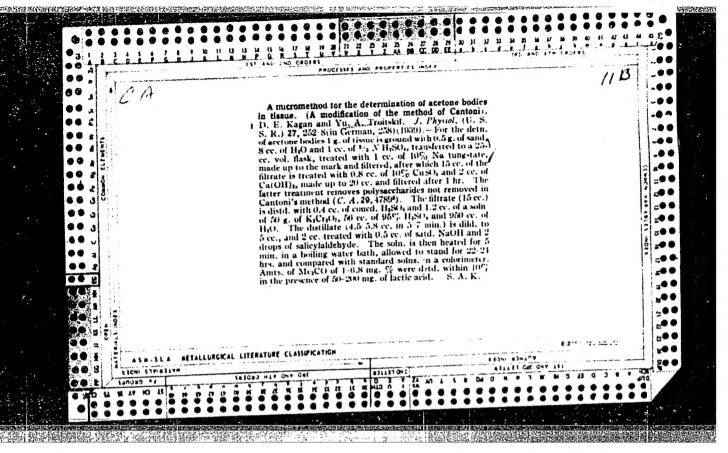


TROITSKIY, YU. A.

"Case of Intoxication by Bread Prepared From Flour Infected With 'Intoxication Fungus' (Fusarium roseum)" by L. A. Velikov and Yu. A. Troitskiy, Sbornik Nauchnykh Trudov Kuybyshevskogo Instituta Epidemiologii, Mikrobiologii i Gigiyeny (Collection of Scientific Works of the Kuybyshev Institute of Epidemiology, Microbiology, and Hygiene) 1956, 2, 142-144 (from Sovetskoye Meditsinskoye Referativnoye Obozreniye, Zdravookhraneniye, Gigiyena i Sanitariya, Istoriya Meditsiny, Moscow, No 20, 1956, abstract by Ye. Vishnevskaya, p 76)

"A case of mass intoxication (49 persons) by bread prepared from flour infected with the 'intoxication fungus' is described. The bread consisted of a heavy, 'gluey,' poorly baked dough; it had a musty color and slightly bitter taste. An analysis of the flour disclosed that in addition to its organoleptic properties it was characterized by a low gluten content (to 10 percent), a diminished ability to ferment, an acidity two to three times higher than normal, a positive reaction to hydrogen sulfide and ammonia, and an increase in the number of free amino acids to 95 to 160 milligram percent (normal 30 to 40 milligram percent). An extract of the flour infected with the fungus produced an instant and highly intensive biuretic reaction. A pure culture of the fungus was successfully grown. All data pointed to the necessity for a broad and thorough method of inspection of flour infected with the 'intoxication fungus.' Symptoms of intoxication were headache, dizziness, nausea, vomiting, general weakness, and unstable locomotion. The symptoms were similar to those caused by alcohol intoxication." (U)





TROITSKIY, Yu.G., kendidat tekhnicheskikh nauk

Operation of flange rivets in bent beams. Trudy TSNIS no.16:145-191
(MERA 8:11)
155. (Girders) (Rivets)

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(MIRA 18:12)

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